



Productivity Innovation

Tsudakoma Rotary Tables

Alberti Precision Tooling

Koma Specialty Tooling

**Massive Capacity!**



## TTNC-1500

59" Diameter Faceplate  
5,500 lbs. Max. Workpiece



TN-131  
shown for scale



TTNC-451

# TTNC-451, 631, 1001, 1500

## HIGH POWER, LARGE TILTING ROTARY TABLES

These large tilting tables feature massive hydraulic clamping torque. The TTNC-1500 is a custom table.



Model		TTNC-451		TTNC-631		TTNC-1001		TTNC-1500	
Tilt Range		-10° ~ +95°		-10° ~ +95°		-20° ~ +110°		-30° ~ +95°	
Table diameter		450		630		1,000		1,500	
Table height at 0° position		425		585		900		1,155	
Center height at 90° position		325		450		700		1,055	
Center bore	Nose Diameter	140H7		180H6		75H7		75H7	
	Thru Diameter	140		180		-		-	
Table T-slot width		14H7		18H7		22H7		28H7	
Guide block width		18h7		18h7		-		-	
Servo motor (Fanuc)*		Rotary	Tilt	Rotary	Tilt	Rotary	Tilt	Rotary	Tilt
		Alpha 12i	Alpha 12i	Alpha 12i	Alpha 12i	Alpha 22i	Alpha 30i	Custom Per Application	Custom Per Application
Maximum motor speed	rpm	3,000	3,000	3,000	3,000	2,000	2,000		
Speed reduction ratio		1/180	1/360	1/180	1/360	1/360	1/1,440		
Maximum table speed	rpm	16.7	8.3	16.7	8.3	5.6	1.4		
Inertia converted into motor shaft		$\times 10^{-3} \text{kg} \cdot \text{m}^2$		1.98		2.7		5.42	
Clamp system**		Hydraulic @500psi		Hydraulic @500psi		Hydraulic @1,000psi		Hydraulic @1,000psi	
Clamp torque		Nm (ft. lbs.)		980 (722)		980 (722)		4,410 (3,250)	
Indexing accuracy		arc sec.		± 7.5		-		± 7.5	
Indexing repeatability		arc sec.		± 2		-		± 2	
Tilting accuracy		arc sec.		-		± 30		-	
Tilting repeatability		arc sec.		-		± 2		-	
Net Weight		kg (lbs.)		780 (1,716)		1,700 (3,740)		4,600 (10,120)	
Allowable wheel torque - rotary		Nm (ft. lbs.)		1,666 (1,228)		3,284 (4,420)		13,230 (9,751)	
Allowable work inertia		kg · m <sup>2</sup>		5.1		29.7		312.6	
Allowable work weight	0° tilt angle	kg (lbs)		200 (440)		600 (1,320)		2,500 (5,500)	
	0° ~ 90° tilt angle	kg (lbs)		150 (330)		300 (660)		1,500 (3,300)	
Allowable work moment	Nm (ft. lbs.)	294 (217)		980 (722)		7,840 (5,778)		7,840 (5,778)	
Allowable load when table clamped	Nm (ft. lbs.)	980 (722)		4,410 (3,250)		9,800 (7,223)		12,000 (8,844)	
	Nm (ft. lbs.)	980 (722)		2,352 (1,733)		19,600 (14,445)		12,500 x (2) (9,213) x (2)	

\*Other motors & rpm available • Specifications subject to change without notice • Dimensions = mm • \*\* Booster optional



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